

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111824\
 Data File : VN084928.D
 Acq On : 18 Nov 2024 18:28
 Operator : JC\MD
 Sample : P4870-13
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 00:33:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

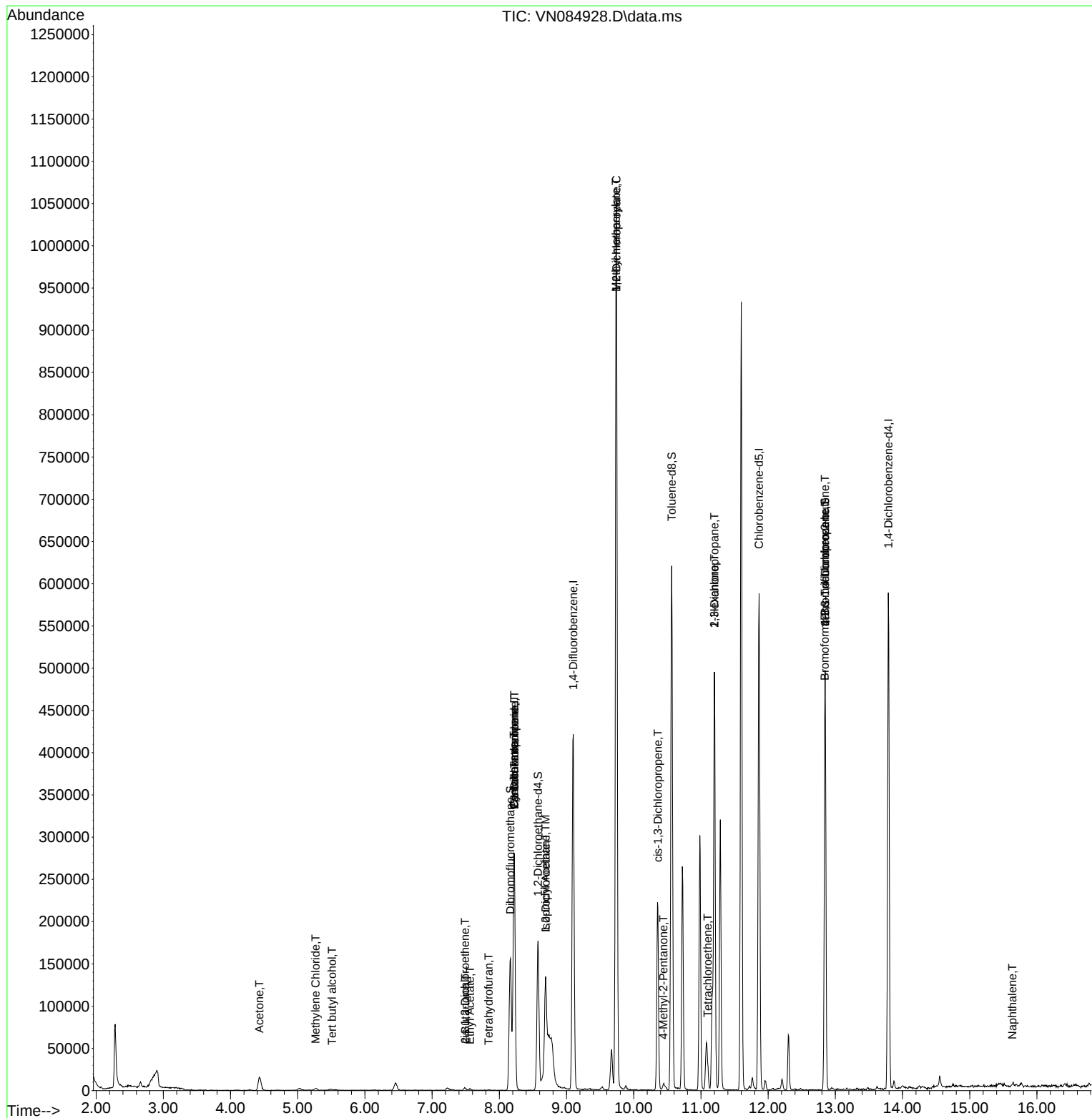
Internal Standards						
1) Pentafluorobenzene	8.224	168	199778	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	364103	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	329895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	154243	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	146163	50.655	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.300%			
35) Dibromofluoromethane	8.165	113	115492	46.862	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.720%			
50) Toluene-d8	10.565	98	431448	47.524	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.040%			
62) 4-Bromofluorobenzene	12.847	95	177931	52.441	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.880%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	999	Below Cal		89
6) Chloroethane	3.118	64	161	Below Cal	#	45
11) Tert butyl alcohol	5.512	59	561	1.473	ug/l #	73
16) Acetone	4.430	43	30152	33.707	ug/l	90
18) Methyl Acetate	5.030	43	4888	Below Cal		93
20) Methylene Chloride	5.265	84	1904	0.750	ug/l #	73
25) 2-Butanone	7.494	43	4240	3.150	ug/l #	86
27) cis-1,2-Dichloroethene	7.489	96	567	0.208	ug/l #	3
29) Tetrahydrofuran	7.841	42	616	0.690	ug/l #	43
31) Cyclohexane	8.218	56	4437	1.114	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	17774	5.200	ug/l #	50
37) Ethyl Acetate	7.565	43	3264	1.053	ug/l #	82
38) Carbon Tetrachloride	8.224	117	22763	5.958	ug/l #	14
42) 1,2-Dichloroethane	8.689	62	756	0.213	ug/l #	75
43) Isopropyl Acetate	8.689	43	224688	39.006	ug/l #	76
45) 1,2-Dichloropropane	9.741	63	1360	0.528	ug/l #	44
48) Methyl methacrylate	9.736	41	92804	38.452	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4645	1.571	ug/l	95
54) cis-1,3-Dichloropropene	10.359	75	41603	9.915	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	5547	1.337	ug/l #	42
59) 2-Hexanone	11.200	43	59296	27.556	ug/l #	56
64) Tetrachloroethene	11.100	164	4890	2.228	ug/l #	87
71) Bromoform	12.841	173	951	0.492	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	90795	29.448	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90795	69.862	ug/l #	11
88) 1,4-Dichlorobenzene	13.723	146	302	Below Cal		84
95) Naphthalene	15.635	128	3753	0.420	ug/l #	76

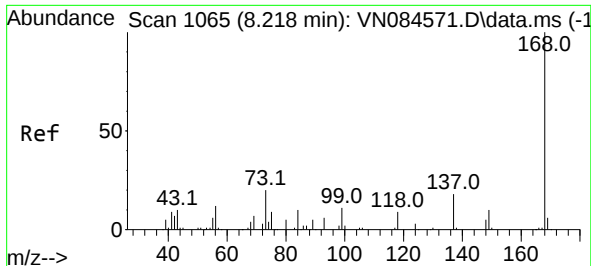
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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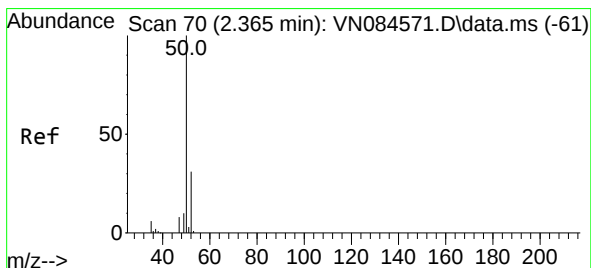
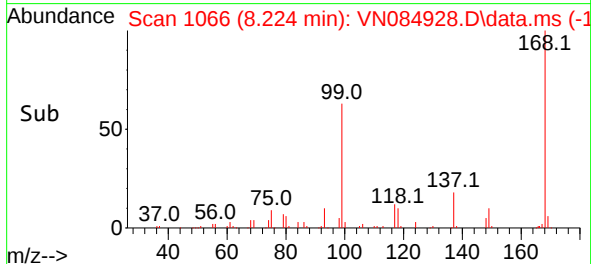
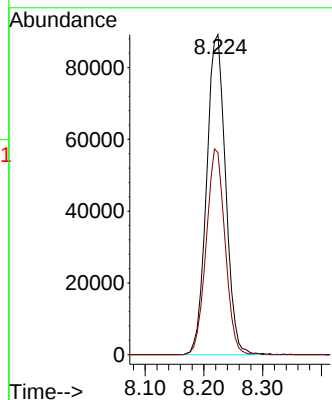
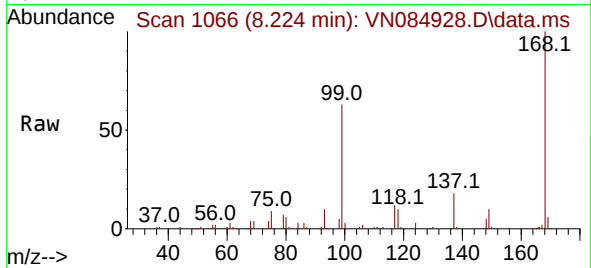




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

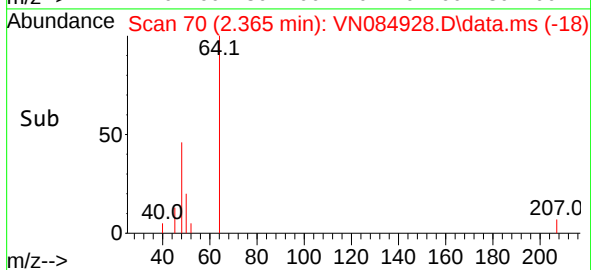
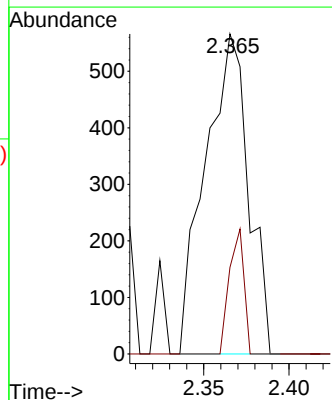
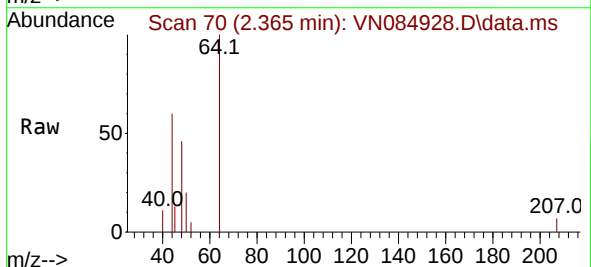
Instrument :
MSVOA_N
ClientSampleId :

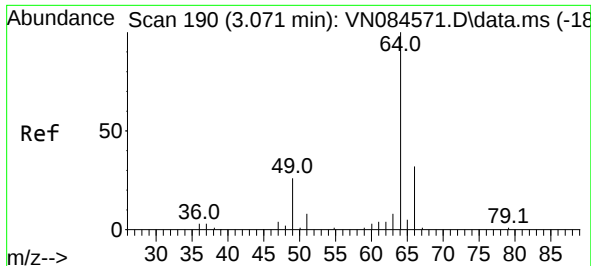
Tgt Ion:168 Resp: 199778
Ion Ratio Lower Upper
168 100
99 63.2 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Tgt Ion: 50 Resp: 999
Ion Ratio Lower Upper
50 100
52 27.0 26.8 40.2

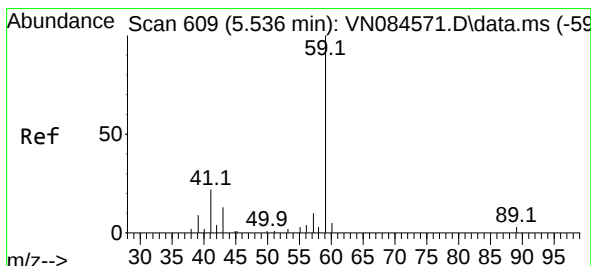
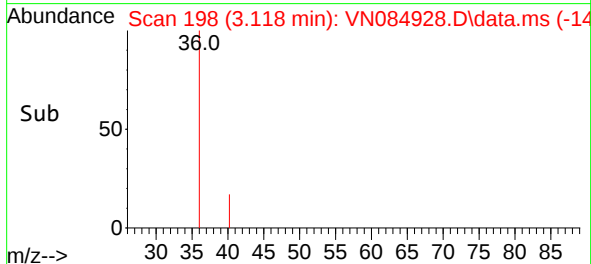
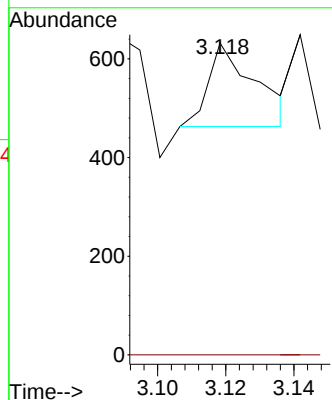
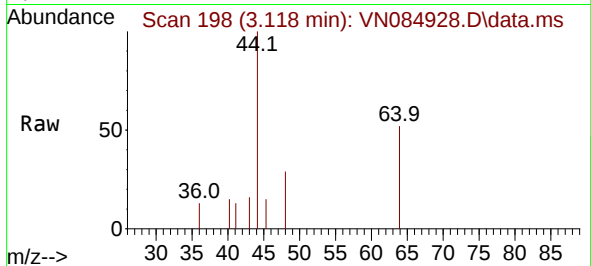




#6
Chloroethane
Concen: Below Cal
RT: 3.118 min Scan# 190
Delta R.T. 0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

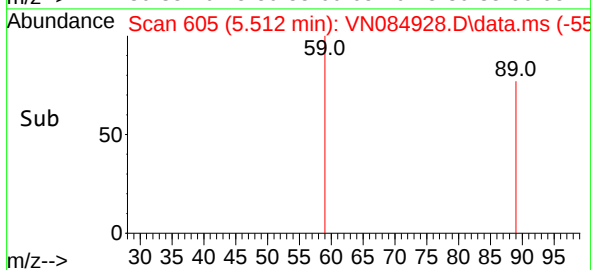
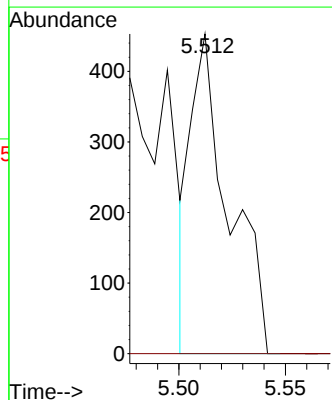
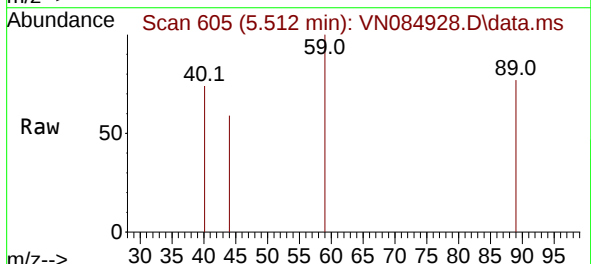
Instrument :
MSVOA_N
ClientSampleId :

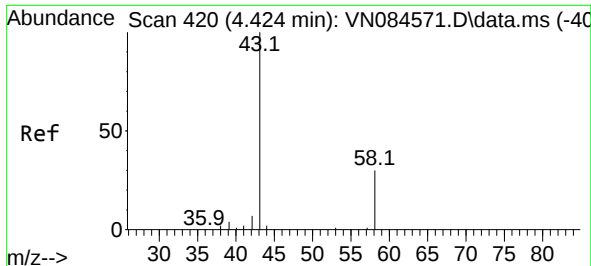
Tgt Ion: 64 Resp: 161
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 1.473 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Tgt Ion: 59 Resp: 561
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

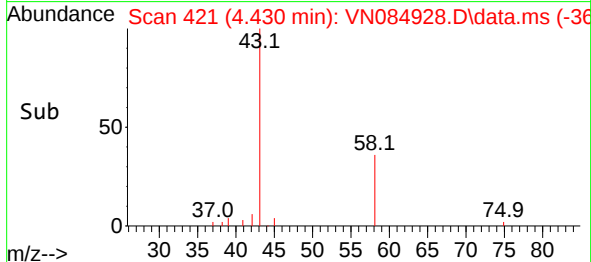
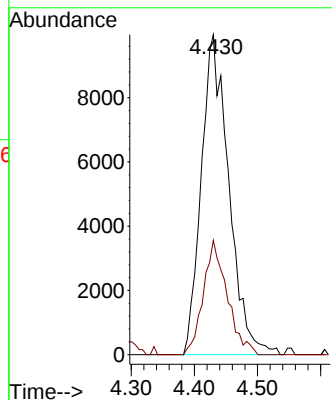
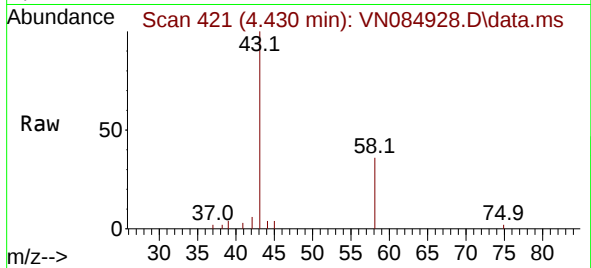




#16
Acetone
Concen: 33.707 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

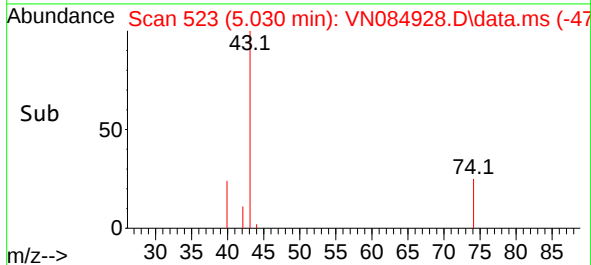
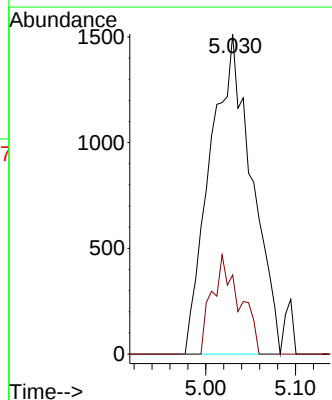
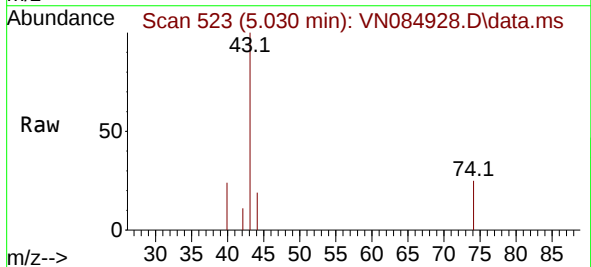
Instrument :
MSVOA_N
ClientSampleId :

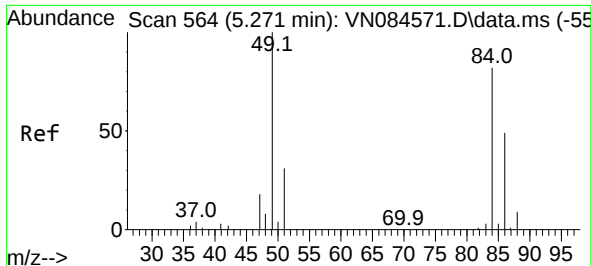
Tgt Ion: 43 Resp: 30152
Ion Ratio Lower Upper
43 100
58 35.8 24.4 36.6



#18
Methyl Acetate
Concen: Below Cal
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

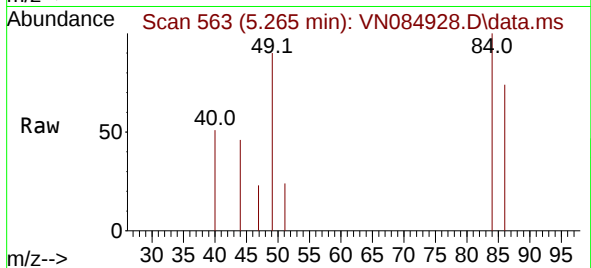
Tgt Ion: 43 Resp: 4888
Ion Ratio Lower Upper
43 100
74 20.5 19.2 28.8



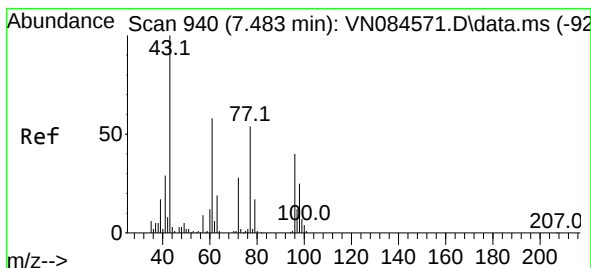
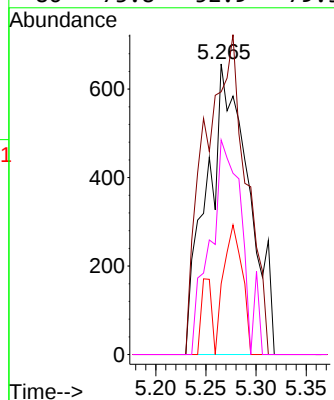


#20
Methylene Chloride
Concen: 0.750 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :

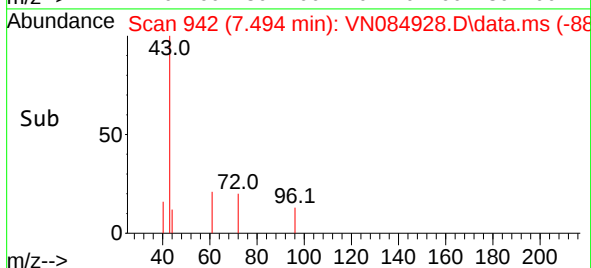
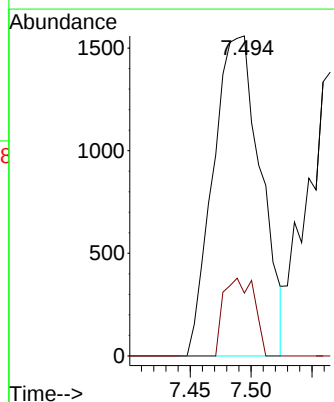
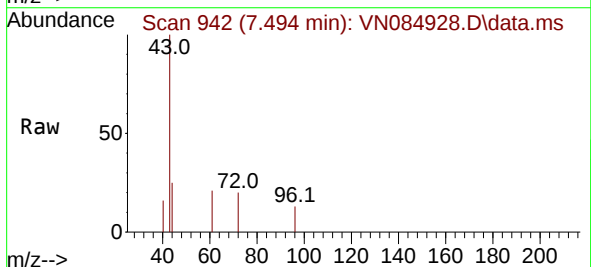


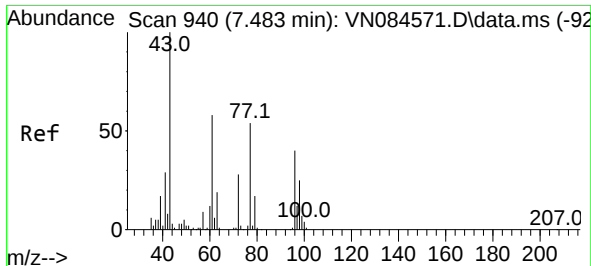
Tgt Ion:	84	Resp:	1904
Ion	Ratio	Lower	Upper
84	100		
49	90.4	107.2	160.8#
51	24.4	31.8	47.8#
86	73.8	52.9	79.3



#25
2-Butanone
Concen: 3.150 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.012 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

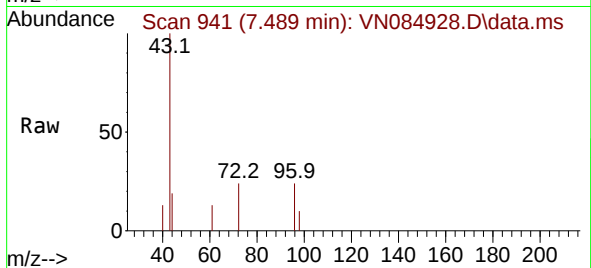
Tgt Ion:	43	Resp:	4240
Ion	Ratio	Lower	Upper
43	100		
72	19.6	21.4	32.2#



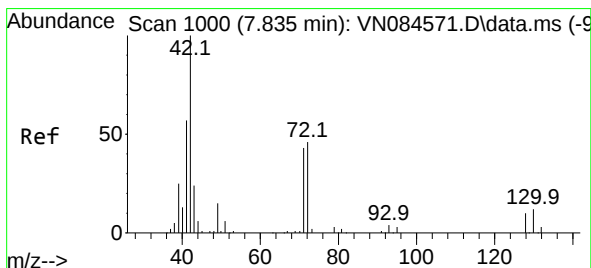
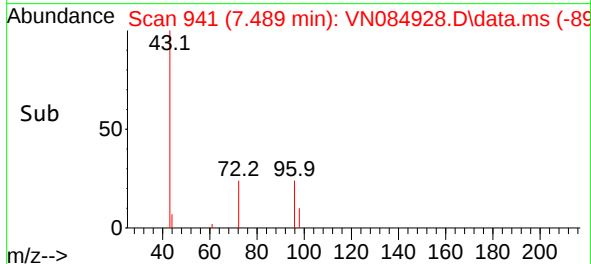
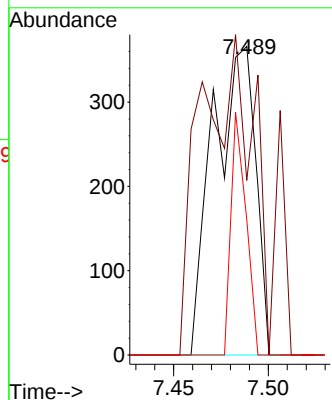


#27
 cis-1,2-Dichloroethene
 Concen: 0.208 ug/l
 RT: 7.489 min Scan# 94
 Delta R.T. 0.000 min
 Lab File: VN084928.D
 Acq: 18 Nov 2024 18:28

Instrument :
 MSVOA_N
 ClientSampleId :

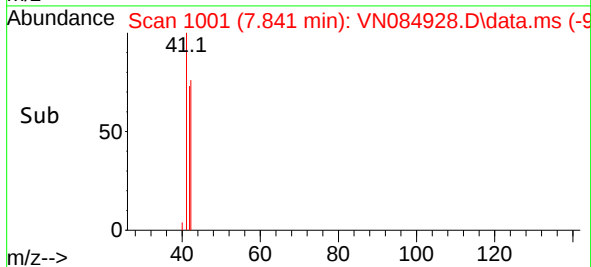
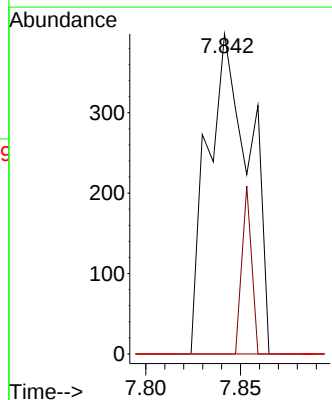
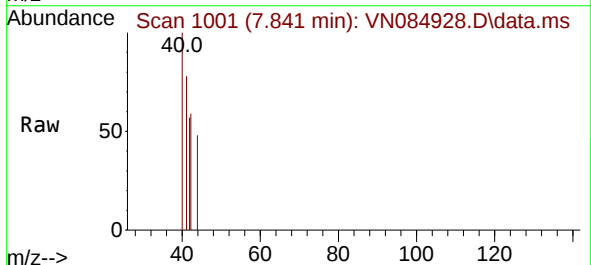


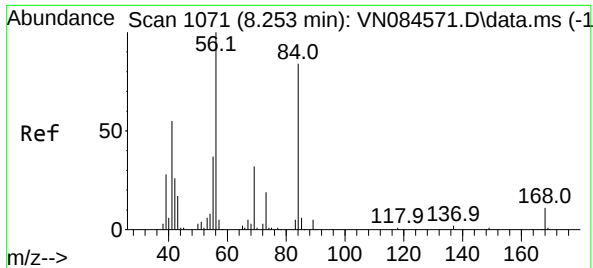
Tgt Ion: 96 Resp: 567
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 301.8
 98 27.9 0.0 128.2



#29
 Tetrahydrofuran
 Concen: 0.690 ug/l
 RT: 7.841 min Scan# 1001
 Delta R.T. 0.006 min
 Lab File: VN084928.D
 Acq: 18 Nov 2024 18:28

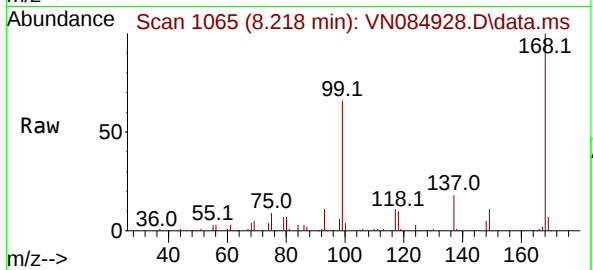
Tgt Ion: 42 Resp: 616
 Ion Ratio Lower Upper
 42 100
 72 12.0 34.6 51.8#
 71 0.0 32.2 48.4#



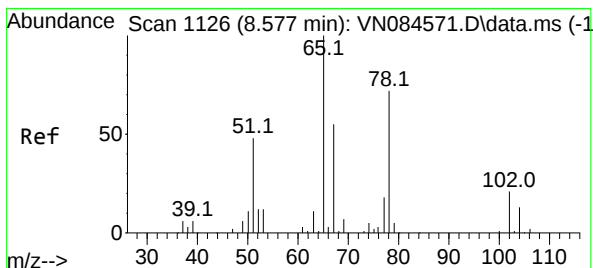
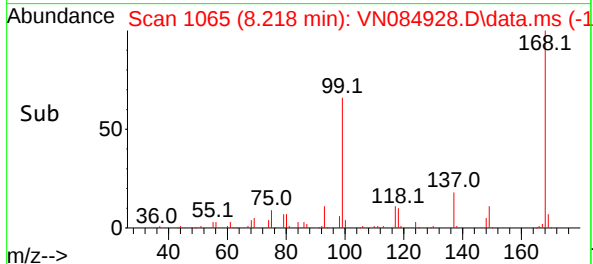
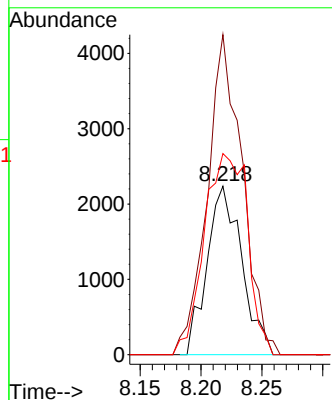


#31
Cyclohexane
Concen: 1.114 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

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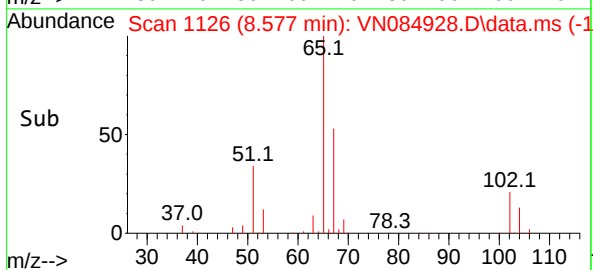
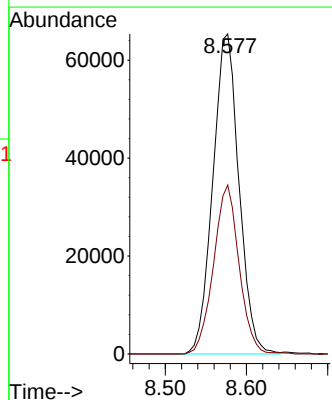
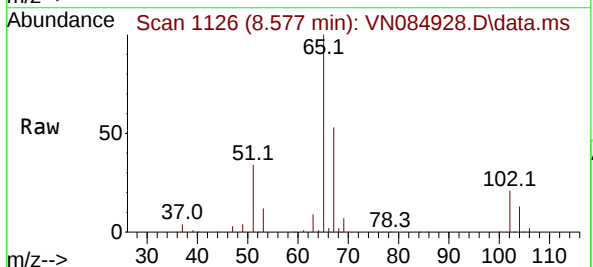


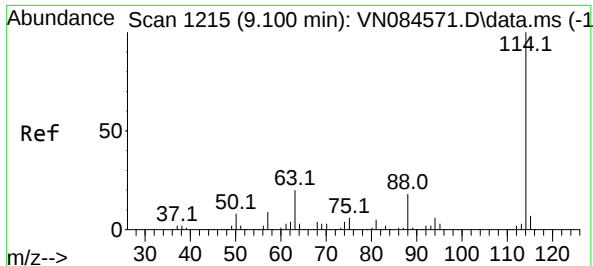
Tgt Ion: 56 Resp: 4437
Ion Ratio Lower Upper
56 100
69 189.9 23.8 35.6#
84 119.4 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 50.655 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Tgt Ion: 65 Resp: 146163
Ion Ratio Lower Upper
65 100
67 51.5 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

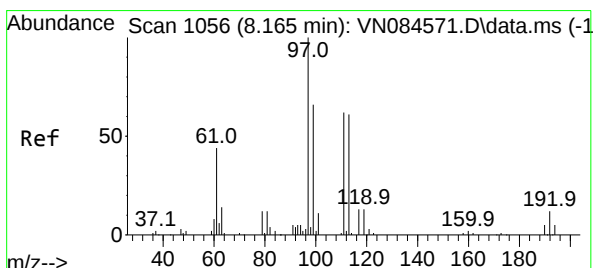
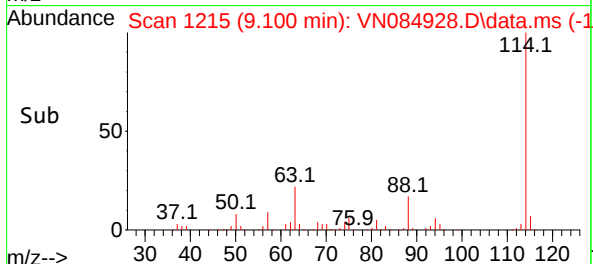
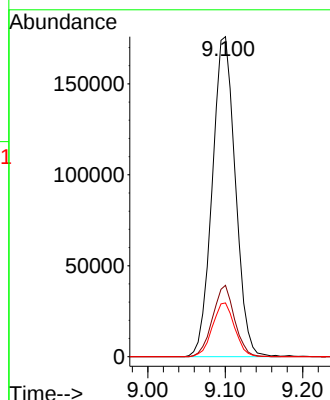
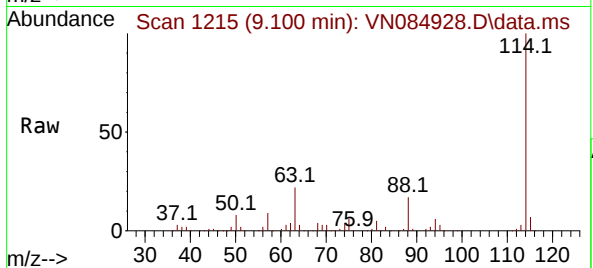
Tgt Ion:114 Resp: 364103

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

88 16.8 0.0 31.6



#35

Dibromofluoromethane

Concen: 46.862 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

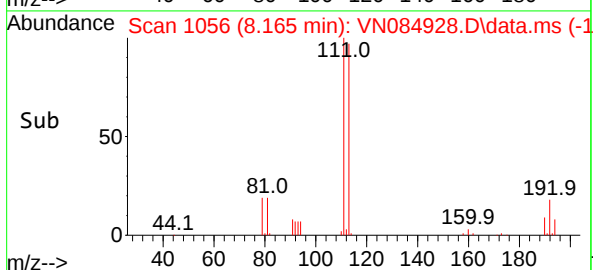
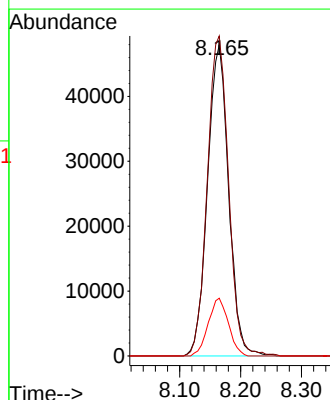
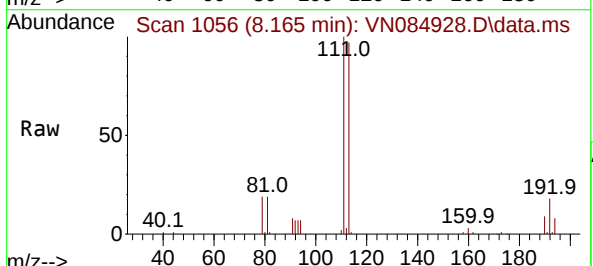
Tgt Ion:113 Resp: 115492

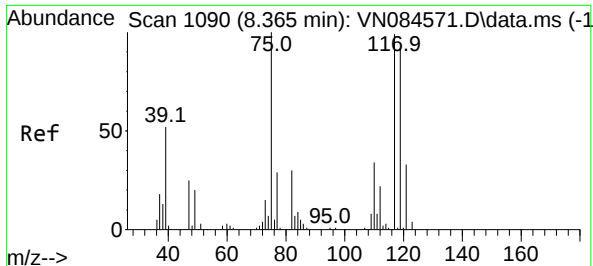
Ion Ratio Lower Upper

113 100

111 103.2 83.3 124.9

192 17.7 13.5 20.3





#36

1,1-Dichloropropene

Concen: 5.200 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

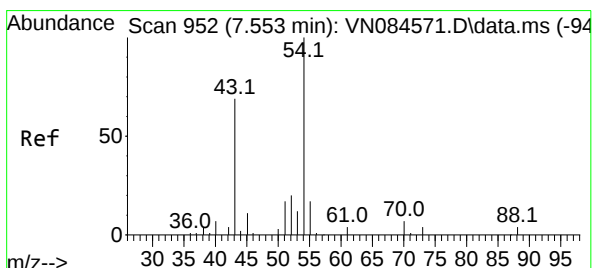
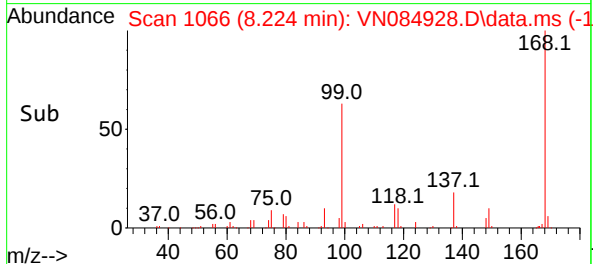
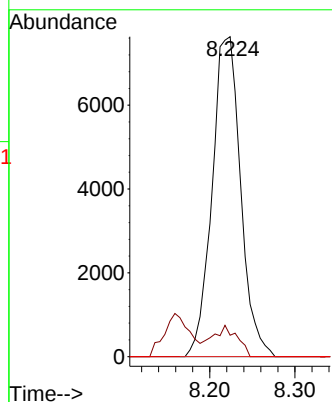
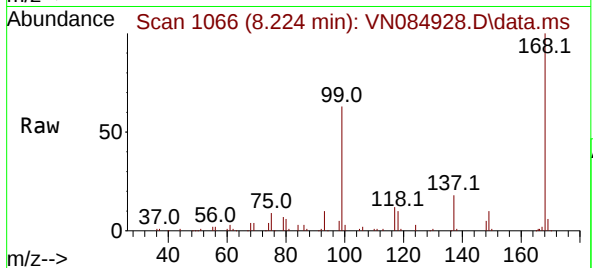
Tgt Ion: 75 Resp: 17774

Ion Ratio Lower Upper

75 100

110 8.6 16.9 50.7#

77 0.0 24.7 37.1#



#37

Ethyl Acetate

Concen: 1.053 ug/l

RT: 7.565 min Scan# 954

Delta R.T. 0.006 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

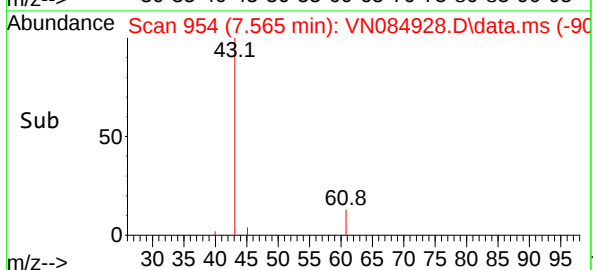
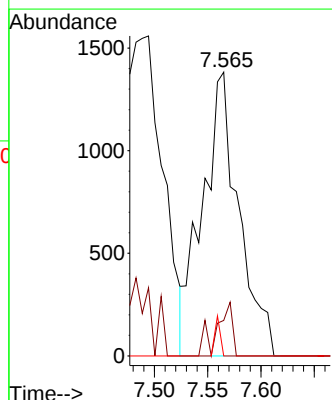
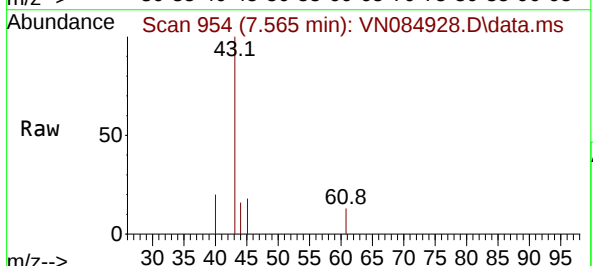
Tgt Ion: 43 Resp: 3264

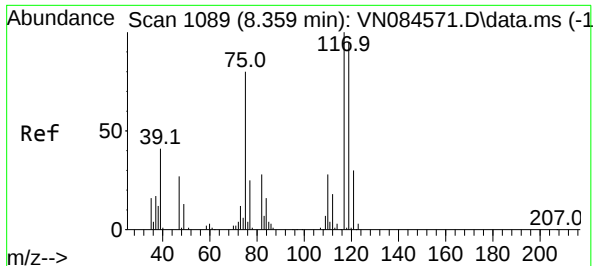
Ion Ratio Lower Upper

43 100

61 8.3 10.7 16.1#

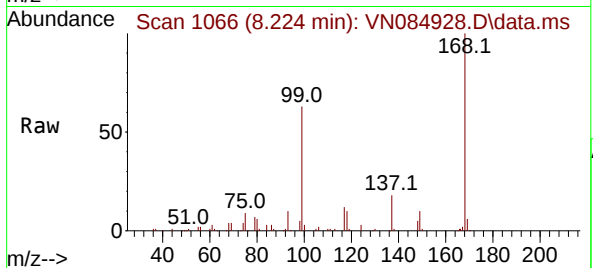
70 2.1 8.8 13.2#



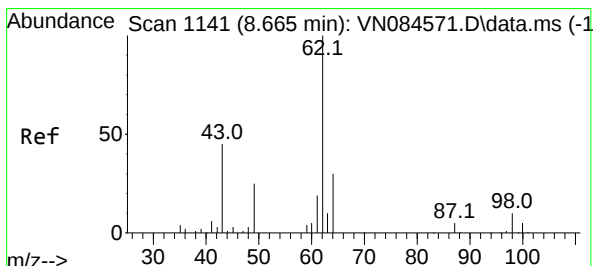
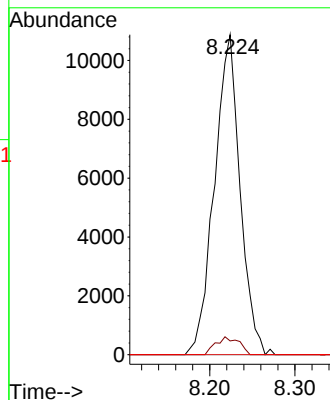
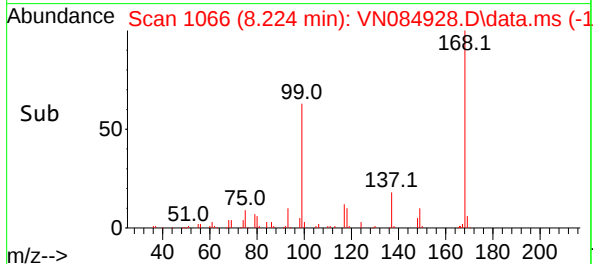


#38
Carbon Tetrachloride
Concen: 5.958 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :

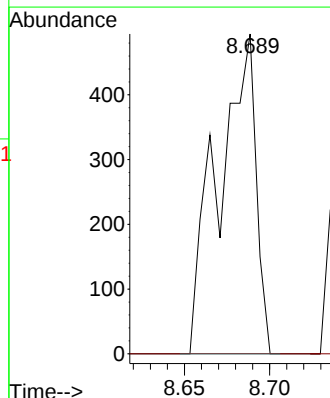
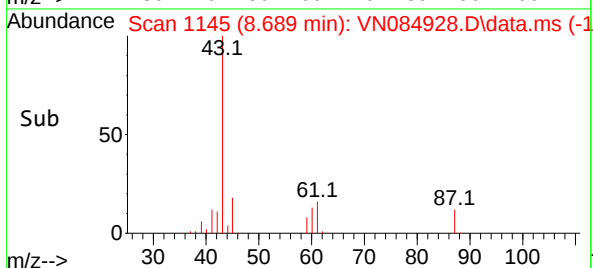
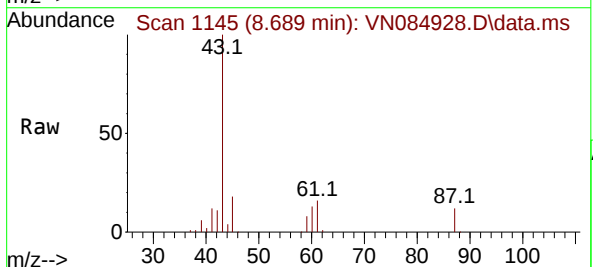


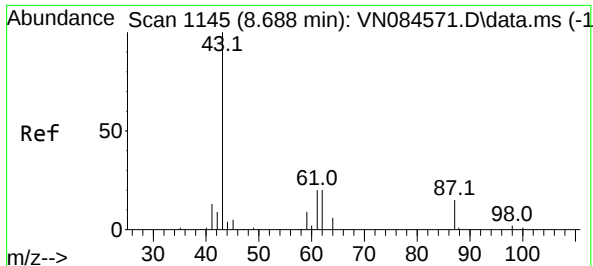
Tgt Ion:117 Resp: 22763
Ion Ratio Lower Upper
117 100
119 4.3 78.7 118.1#
121 0.0 24.4 36.6#



#42
1,2-Dichloroethane
Concen: 0.213 ug/l
RT: 8.689 min Scan# 1145
Delta R.T. 0.018 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Tgt Ion: 62 Resp: 756
Ion Ratio Lower Upper
62 100
98 0.0 0.0 18.2





#43

Isopropyl Acetate

Concen: 39.006 ug/l

RT: 8.689 min Scan# 1145

Delta R.T. 0.001 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

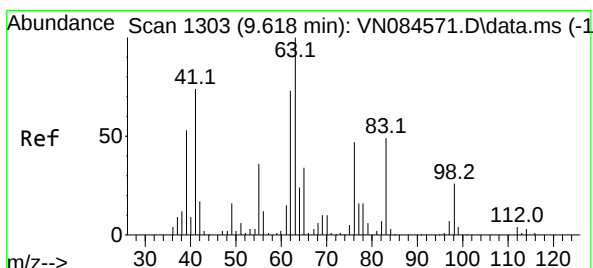
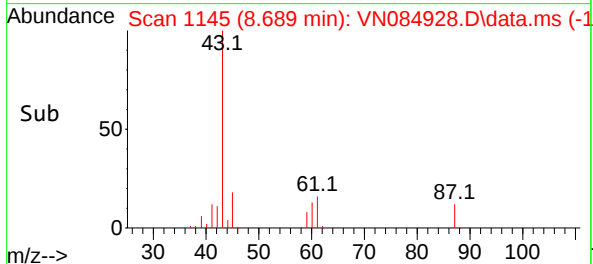
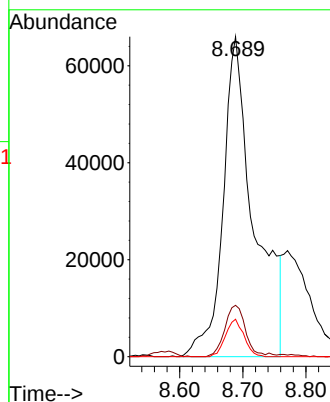
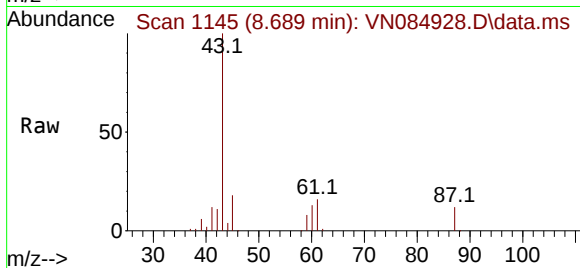
Tgt Ion: 43 Resp: 224688

Ion Ratio Lower Upper

43 100

61 10.7 20.4 30.6#

87 7.0 10.3 15.5#



#45

1,2-Dichloropropane

Concen: 0.528 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.123 min

Lab File: VN084928.D

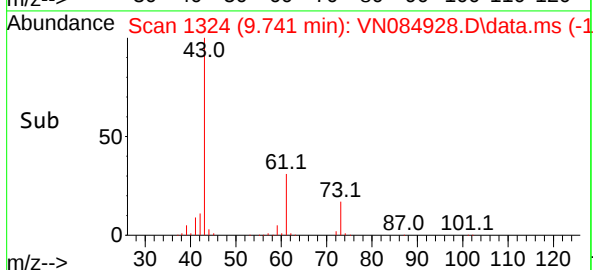
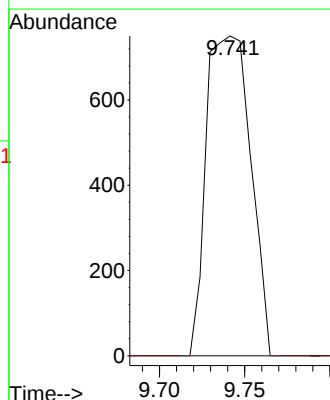
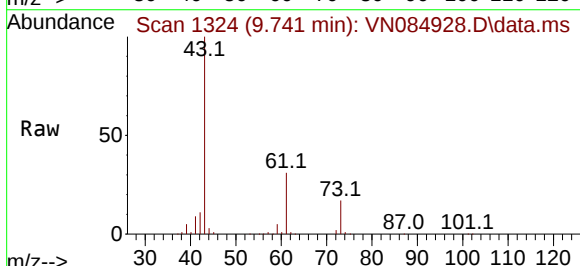
Acq: 18 Nov 2024 18:28

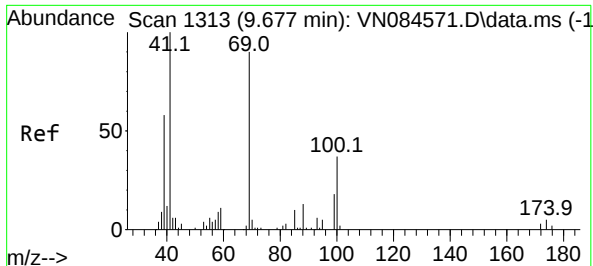
Tgt Ion: 63 Resp: 1360

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#





#48

Methyl methacrylate

Concen: 38.452 ug/l

RT: 9.736 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

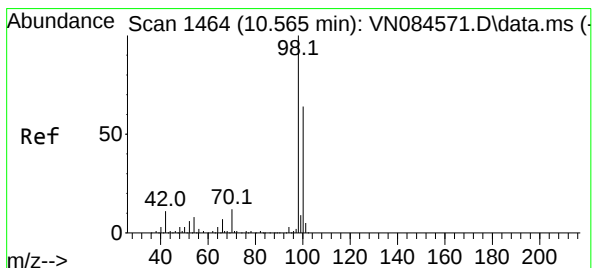
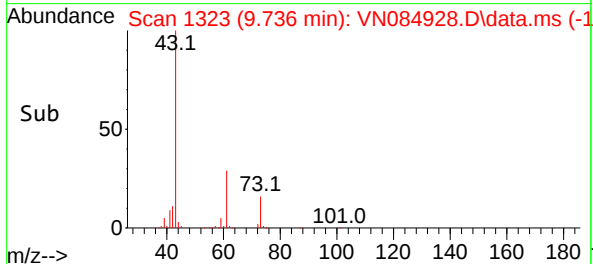
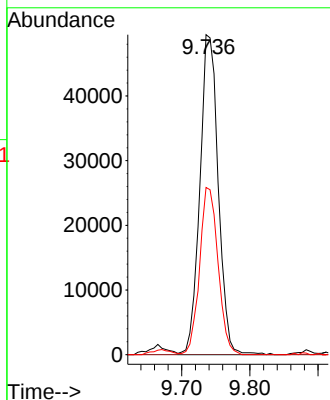
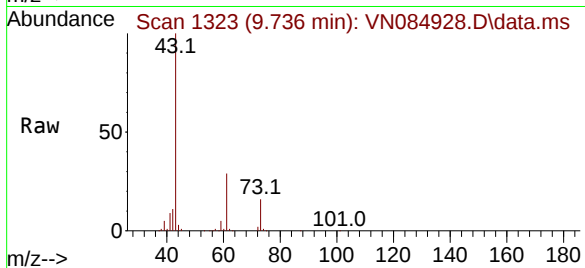
Tgt Ion: 41 Resp: 92804

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 52.3 45.8 68.6



#50

Toluene-d8

Concen: 47.524 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084928.D

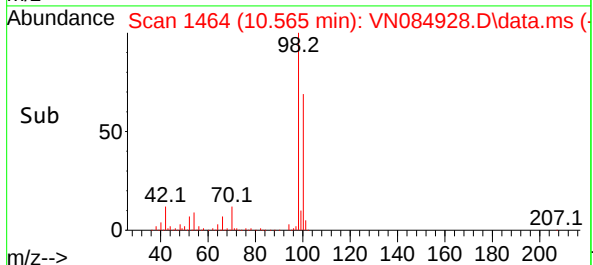
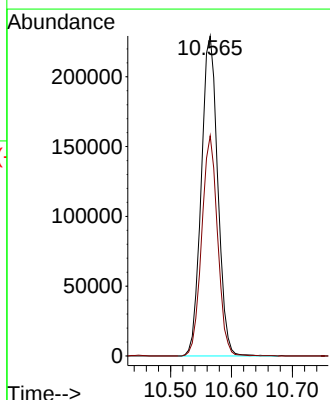
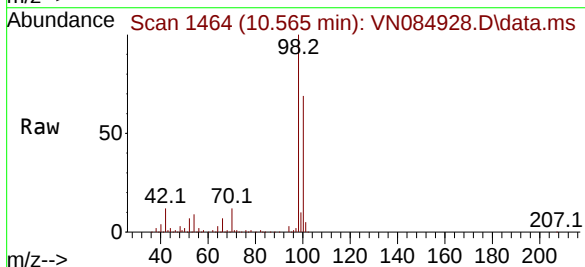
Acq: 18 Nov 2024 18:28

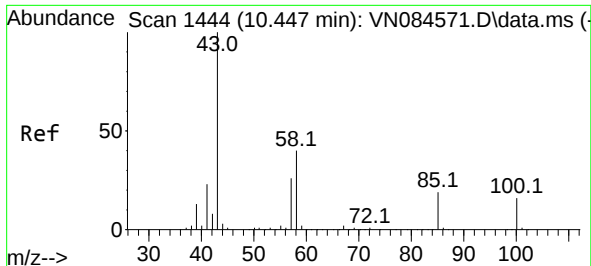
Tgt Ion: 98 Resp: 431448

Ion Ratio Lower Upper

98 100

100 66.3 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 1.571 ug/l

RT: 10.441 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

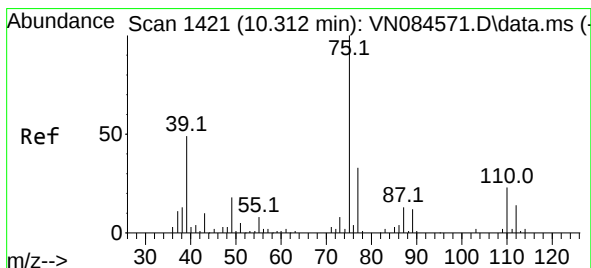
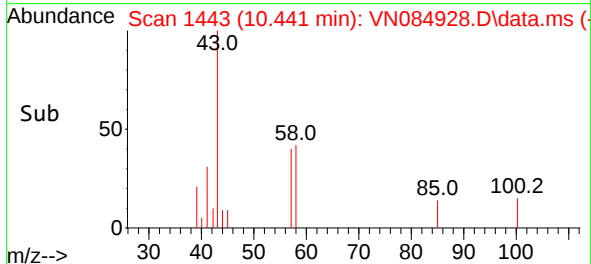
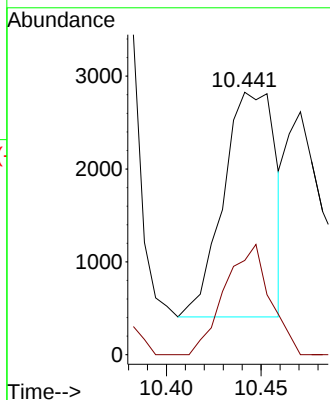
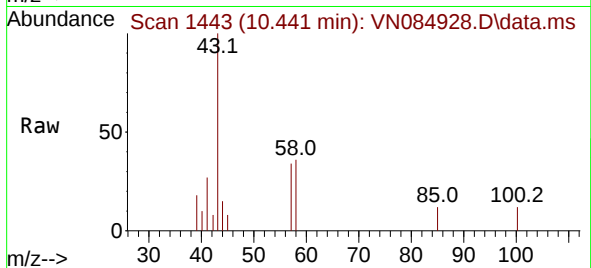
ClientSampleId :

Tgt Ion: 43 Resp: 4645

Ion Ratio Lower Upper

43 100

58 42.5 31.6 47.4



#54

cis-1,3-Dichloropropene

Concen: 9.915 ug/l

RT: 10.359 min Scan# 1429

Delta R.T. 0.047 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

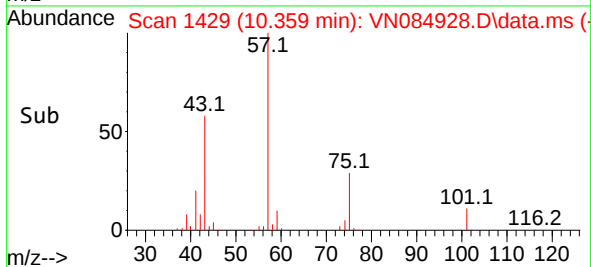
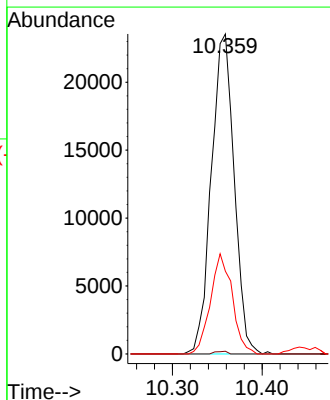
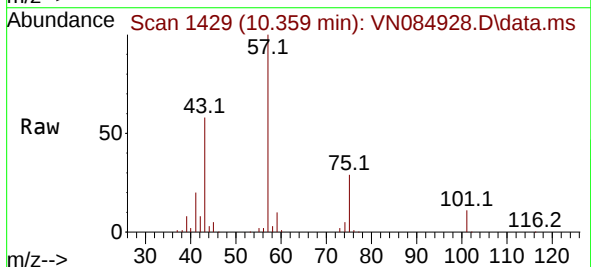
Tgt Ion: 75 Resp: 41603

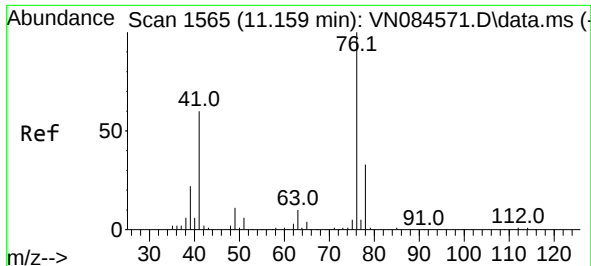
Ion Ratio Lower Upper

75 100

77 0.8 24.2 36.2#

39 25.9 38.7 58.1#





#57

1,3-Dichloropropane

Concen: 1.337 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

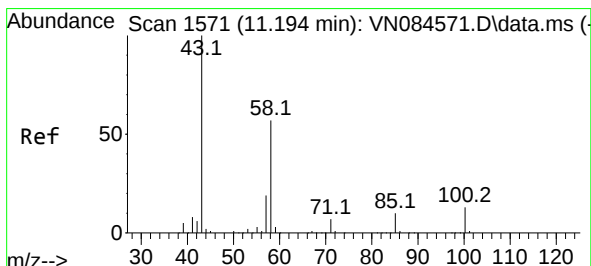
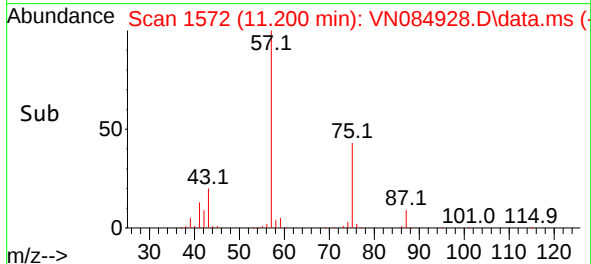
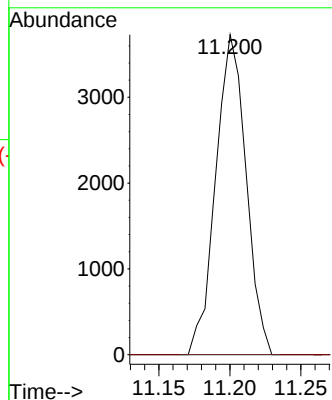
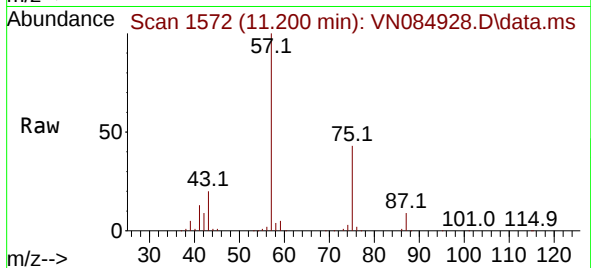
ClientSampleId :

Tgt Ion: 76 Resp: 5547

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 27.556 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084928.D

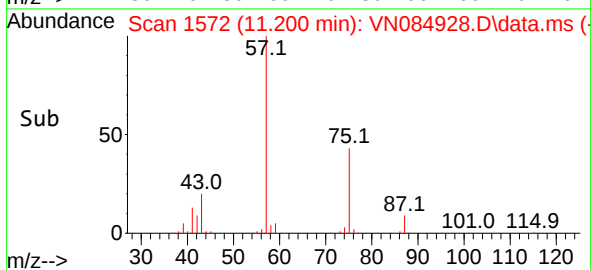
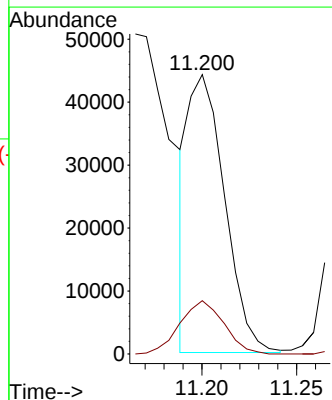
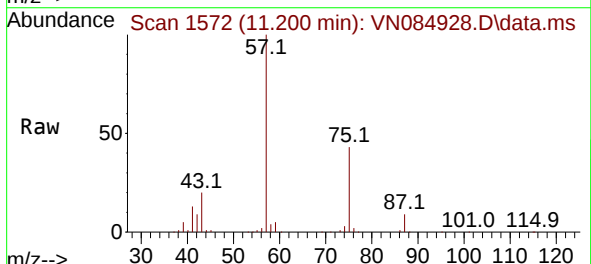
Acq: 18 Nov 2024 18:28

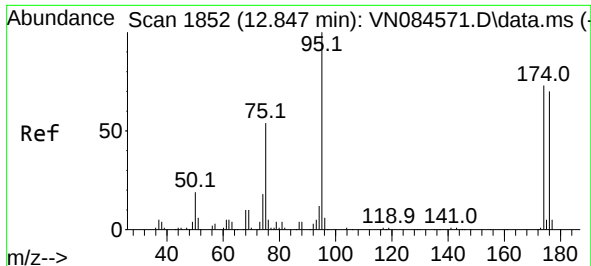
Tgt Ion: 43 Resp: 59296

Ion Ratio Lower Upper

43 100

58 23.1 27.3 81.8#

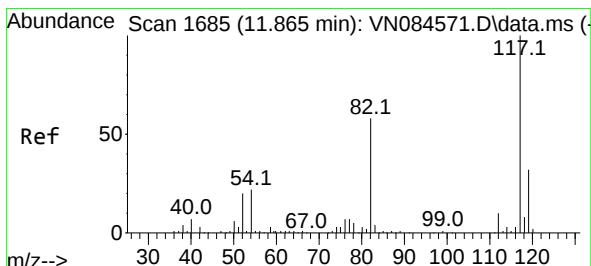
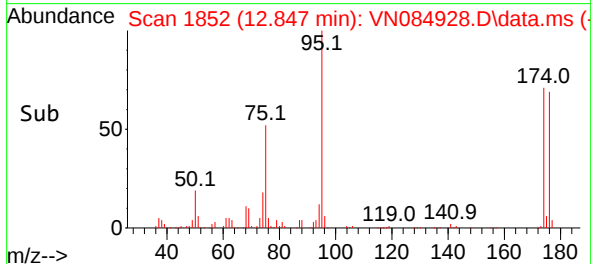
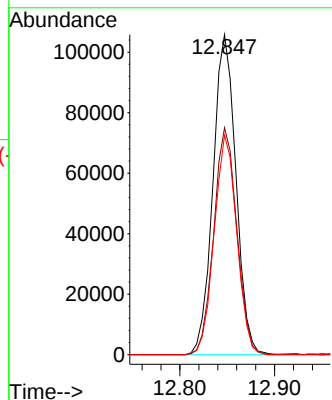
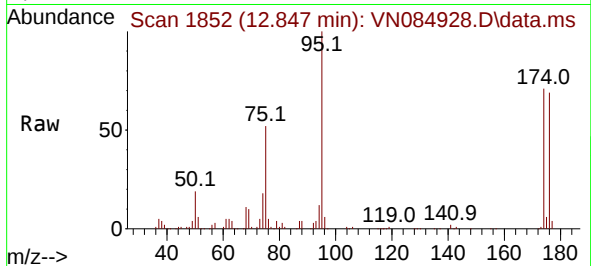




#62
4-Bromofluorobenzene
Concen: 52.441 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

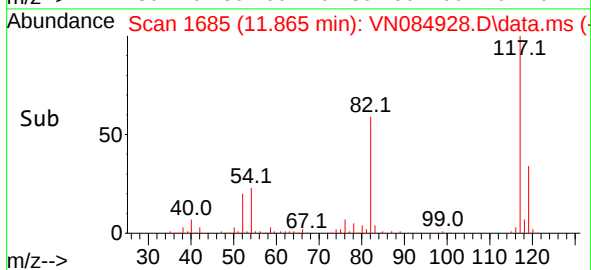
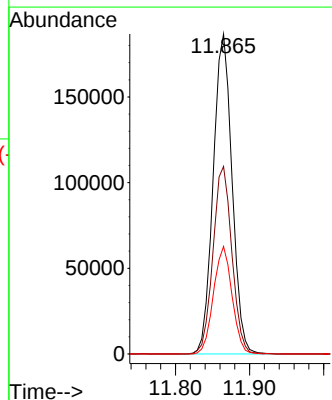
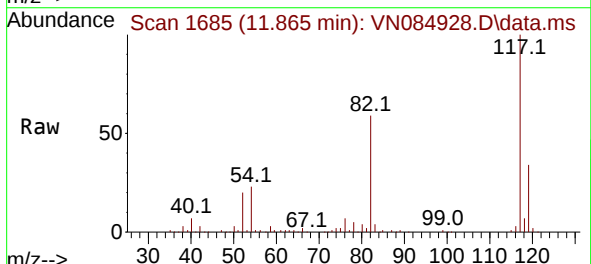
Instrument :
MSVOA_N
ClientSampleId :

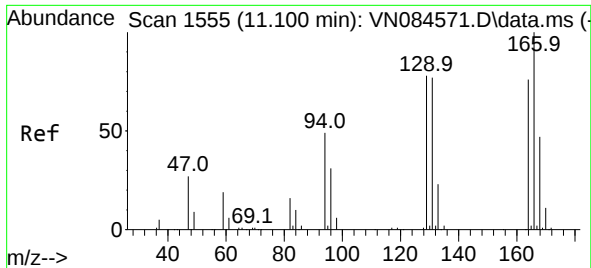
Tgt Ion: 95 Resp: 177931
Ion Ratio Lower Upper
95 100
174 71.2 0.0 145.2
176 67.5 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

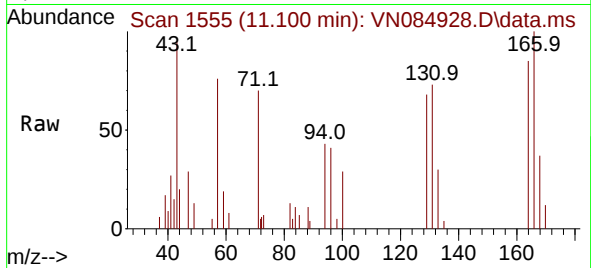
Tgt Ion: 117 Resp: 329895
Ion Ratio Lower Upper
117 100
82 58.6 47.2 70.8
119 33.6 25.4 38.0



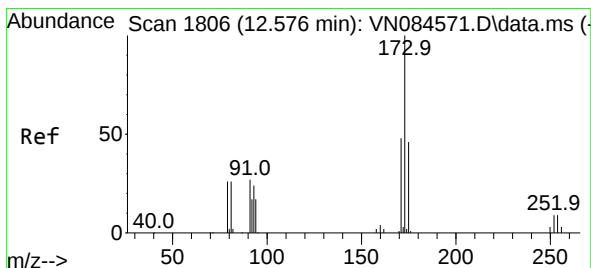
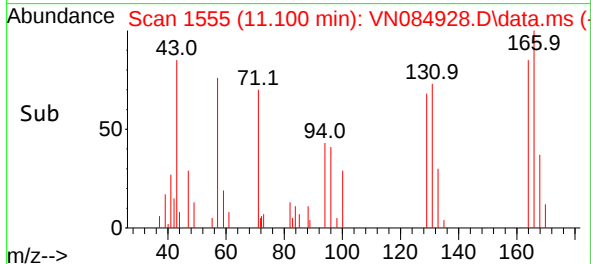
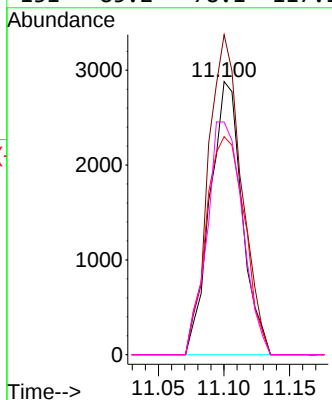


#64
Tetrachloroethene
Concen: 2.228 ug/l
RT: 11.100 min Scan# 111
Delta R.T. 0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :

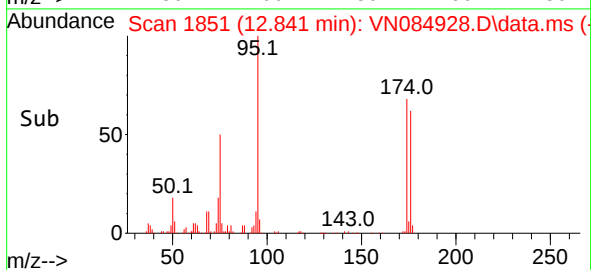
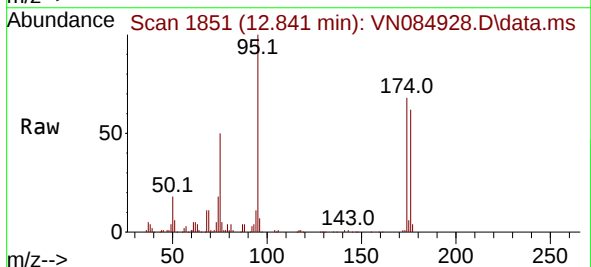
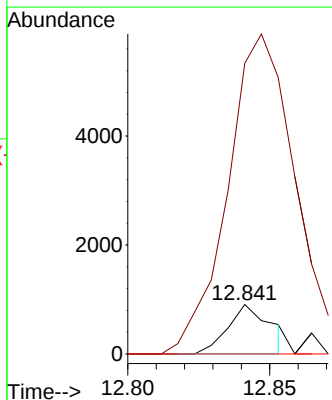


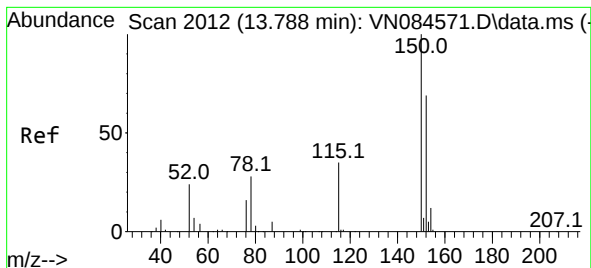
Tgt Ion:164 Resp: 4890
Ion Ratio Lower Upper
164 100
166 117.1 101.0 151.4
129 79.8 80.8 121.2#
131 85.2 78.1 117.1



#71
Bromoform
Concen: 0.492 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Tgt Ion:173 Resp: 951
Ion Ratio Lower Upper
173 100
175 802.0 23.5 70.6#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN084928.D

Acq: 18 Nov 2024 18:28

Instrument :

MSVOA_N

ClientSampleId :

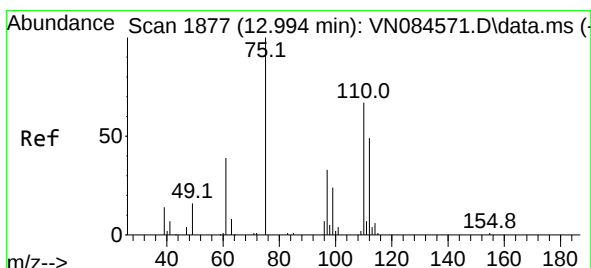
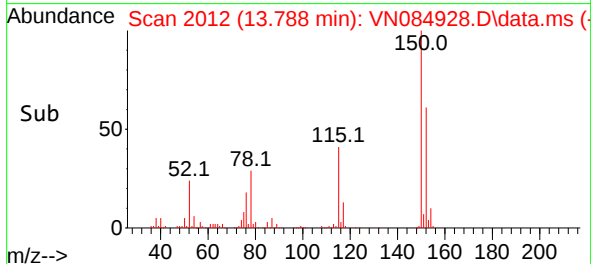
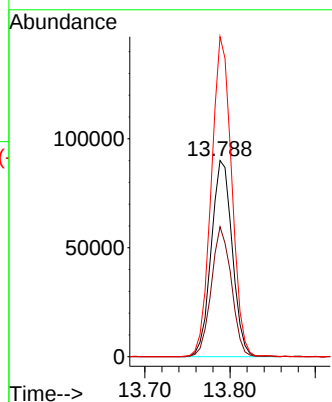
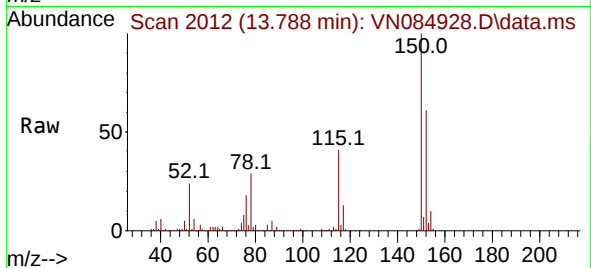
Tgt Ion:152 Resp: 154243

Ion Ratio Lower Upper

152 100

115 63.2 31.3 93.9

150 158.2 0.0 349.8



#76

1,2,3-Trichloropropane

Concen: 29.448 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN084928.D

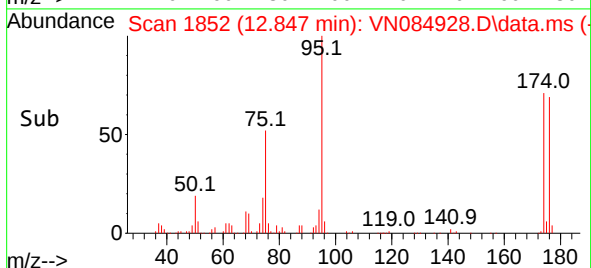
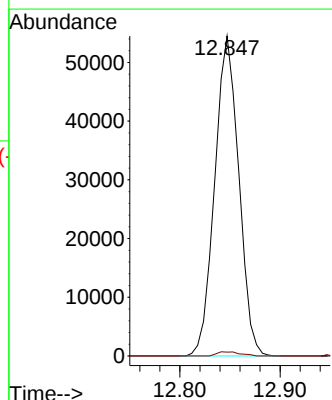
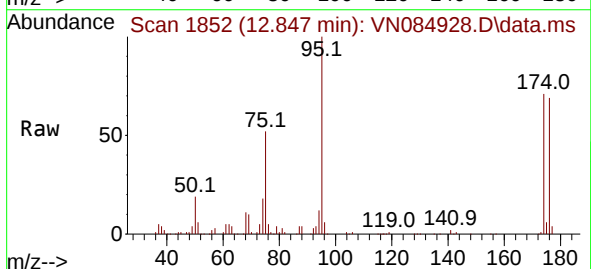
Acq: 18 Nov 2024 18:28

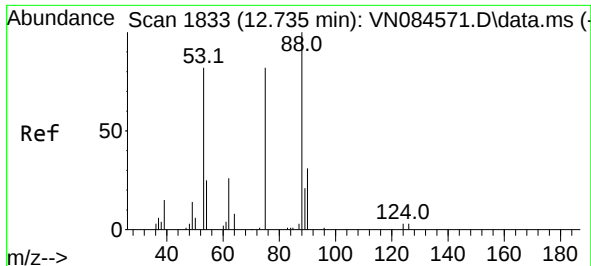
Tgt Ion: 75 Resp: 90795

Ion Ratio Lower Upper

75 100

77 1.3 96.9 290.7#

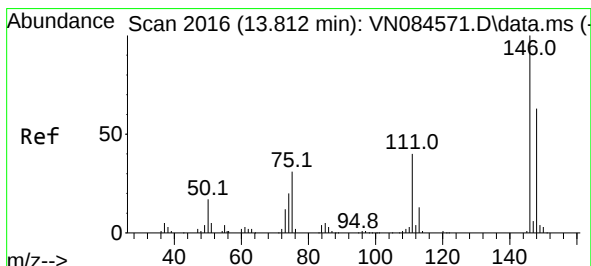
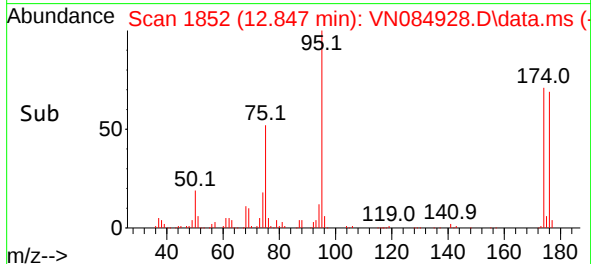
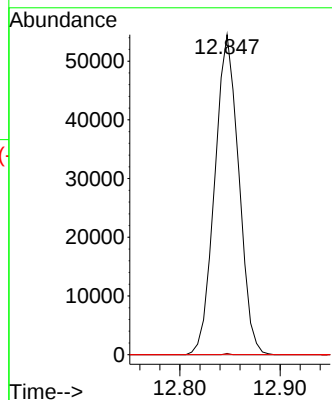
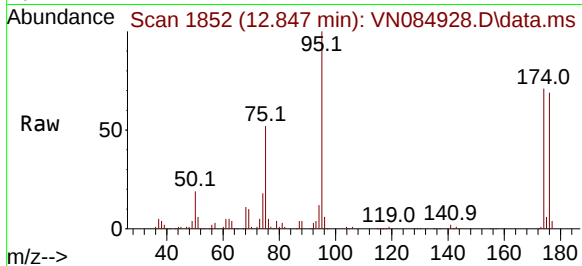




#81
trans-1,4-Dichloro-2-butene
Concen: 69.862 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

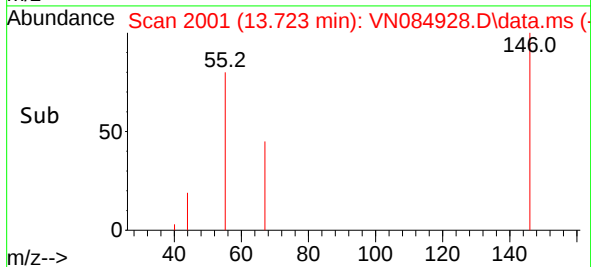
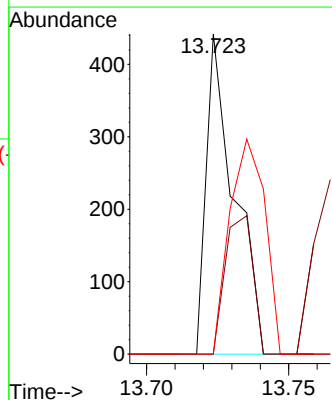
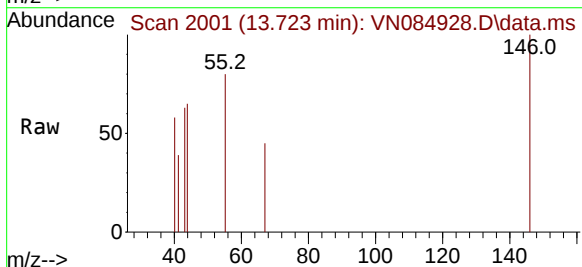
Instrument :
MSVOA_N
ClientSampleId :

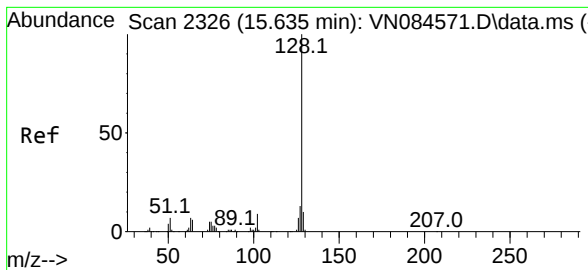
Tgt Ion: 75 Resp: 90795
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 35.5 53.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.723 min Scan# 2001
Delta R.T. -0.089 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Tgt Ion:146 Resp: 302
Ion Ratio Lower Upper
146 100
111 42.7 21.2 63.6
148 84.8 31.9 95.9





#95
Naphthalene
Concen: 0.420 ug/l
RT: 15.635 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN084928.D
Acq: 18 Nov 2024 18:28

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:	128	Resp:	3753
Ion	Ratio	Lower	Upper
128	100		
127	4.9	10.5	15.7#
129	0.0	8.7	13.1#

